

connection of the fourth shaft and the rotating portion can be direct or through a bearing in order to retard the rotational energy transfer.

Fig 2-1, 2-2, 2-3 and 2-4

The first sprocket and shaft lies on the same spatial line as the forth sprocket and shaft.

The second sprocket and shaft unit, which has two sprockets and one shaft, lies on a spatial line parallel to the spatial line occupied by the first and forth sprockets and shafts.

The third sprocket and shaft unit, which has two sprockets and one shaft, lines on a third spatial line that is parallel to the two spatial lines described above.

What is claimed is:

[Claim 1] A mechanism used to rotate a component of a wheel rim or something attached to a wheel rim in the opposite direction the wheel rim is rotating. This mechanism will produce a counter rotation as compared to the rotation of the wheel. The mechanism will consist of a bearing and sprocket system that is connected to the wheel rim.

[Claim 2] A mechanism that will take the rotation of a wheel and produce a counter rotation as claimed in claim 1. The mechanism will consist of a set of sprockets on shafts. The initial sprocket will be on a shaft extended from the center of the wheel rim. A second shaft and sprocket set will consist of two sprockets and one shaft and will be engaged with the initial sprocket and shaft. The second sprocket and shaft set will thus rotate counter to the initial sprocket and shaft. This second sprocket and shaft set will be engaged to a third sprocket and shaft set. The third sprocket and shaft set will consist of two sprockets and one shaft and will rotate opposite the second sprocket and shaft set. The initial and third sprocket and shaft sets will rotate in the same direction. A fourth sprocket and shaft will be engaged with the third sprocket and shaft set. This will cause the forth sprocket and shaft to rotate counter to the third sprocket and shaft set. Thus, the second and fourth sprocket and shaft sets will rotate in the same direction and this direction will be opposite the direction the wheel rim is rotating. The effect of the mechanism is to produce a rotation counter to the rotation of the wheel rim.